

10-25-06

17W#

Attorney's Docket No.: 14875-137US1 / C1-A0210Y1P-US

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Tatsuhiko Kodama et al.      Art Unit : 1632  
Serial No. : 10/516,603      Examiner : Louis D. Lieto  
Filed : June 8, 2005      Conf. No. : 5647  
Title : METHODS FOR PRODUCING ANTIBODIES

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of any listed U.S. patents or U.S. patent application publications can be provided upon request.

Reference AH is the same as reference AL, so it is not separately provided. As references AI and AJ are in Japanese, Applicants have included a computer-generated English translation of each, as well as an English abstract of each obtained from Patent Abstracts of Japan. A translation of reference AK is not included, since it is a member of the patent family of reference AL. A translation of reference AM is not included, since it is a member of the patent family of reference AD. English translations of references AO, AP, and AQ are provided herewith. Also enclosed is a brief English summary of foreign language reference ACCC.

Applicants wish to bring to the Examiner's attention co-pending and co-owned non-provisional applications serial numbers 10/492,376 (Attorney Docket No. 14875-129US1), 10/497,900 (Attorney Docket No. 14875-131US1), 10/509,343 (Attorney Docket No. 14875-133US1), 10/550,987 (Attorney Docket No. 14875-152US1), and 10/594,690 (Attorney Docket No. 14875-167US1) which concern related subject matter, and some of which have overlapping inventorship with the above-referenced application. Applicants assume that the Examiner has ongoing access to the files of these related applications and can obtain copies of prosecution documents from the files if at any point in the future he/she considers it potentially relevant to

## CERTIFICATE OF MAILING BY EXPRESS MAIL

Express Mail Label No. EV404896062USOctober 24, 2006  
Date of Deposit

10/26/2006 RMEBRAHT 00000004 10516603

01 FC:1806

180.00 OP

Applicant : Tatsuhiko Kodama et al.  
Serial No. : 10/516,603  
Filed : June 8, 2005  
Page : 2 of 2

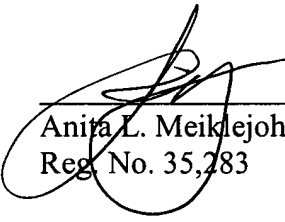
Attorney's Docket No.: 14875-137US1 / C1-A0210Y1P-US

issues in the present application. Applicants will supply copies of such documents from the related applications' files, should the Examiner request them.

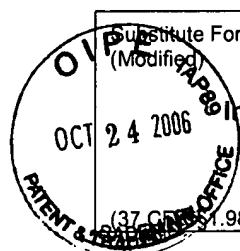
This statement is being filed after a first Office action on the merits, but before receipt of a final Office action or a Notice of Allowance. A check for \$180 in payment of the late submission fee of §1.17(p) is enclosed. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: 24 OCT 2006

  
Anita L. Meiklejohn, Ph.D.  
Reg. No. 35,283

Fish & Richardson P.C.  
225 Franklin Street  
Boston, MA 02110  
Telephone: (617) 542-5070  
Facsimile: (617) 542-8906



Substitute Form PTO-1449 (Modified) <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR 1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. <b>14875-137US1</b>	Application No. <b>10/516,603</b>
		Applicant <b>Tatsuhiko Kodama et al.</b>	
		Filing Date <b>June 8, 2005</b>	Group Art Unit <b>1632</b>

**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	5,500,346	3/19/1996	Bright et al.			
	AB	5,849,525	12/15/1998	Hediger			
	AC	6,270,978	08/07/2001	Bright et al.			
	AD	6,713,278	03/30/2004	Bouvier et al.			
	AE	2005/0004227	01/06/2005	Saitoh			
	AF	2005/0281825	12/22/2005	Kodama et al.			
	AG	2006/0084119	04/20/2006	Saitoh et al.			

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AH	AU 9676557	06/19/1997	Australia			See AL	
	AI	JP 6-261761	09/20/1994	Japan			X	
	AJ	JP 11-172	01/06/1999	Japan			X	
	AK	KR 1999-0071666	09/27/1999	Korea			See AL	
	AL	WO 97/19919	06/05/1997	WIPO			English abstract	
	AM	WO 98/46777	10/22/1998	WIPO			See AD	
	AN	WO 00/28016	05/18/2000	WIPO				
	AO	WO 03/033024	04/24/2003	WIPO			X	
	AP	WO 03/047621	06/12/2003	WIPO			X	
	AQ	WO 03/083116	10/09/2003	WIPO			X	
	AR	WO 03/104453	12/18/2003	WIPO			English abstract	

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AS	Basu et al., "Development and Utility of Anti-PepT1 Anti-Peptide Polyclonal Antibodies," <i>Pharmaceutical Research</i> , 15:338-342 (1998)
	AT	Basu et al., "Screening of Anti-PepT1 Antibodies Using Indirect ELISA," <i>Pharmaceutical Research</i> , 13(9 Suppl.):S-37, Abstract No. APQ 1137 (1996)

Examiner Signature	Date Considered
--------------------	-----------------

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14875-137US1	Application No. 10/516,603
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Tatsuhiko Kodama et al.	
		Filing Date June 8, 2005	Group Art Unit 1632

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AU	Blissard et al., "Location, Sequence, Transcriptional Mapping, and Temporal Expression of the gp64 Envelope Glycoprotein Gene of the <i>Oryza pseudotsugata</i> Multicapsid Nuclear Polyhedrosis Virus," <i>Virology</i> , 170:537-555 (1989)
	AV	Friedman et al., "Characterization of the Intestinal Transport Parameters for Small Peptide Drugs," <i>J. Control. Release</i> , 13:141-146 (1990)
	AW	Friedman et al., "Passive and Carrier-Mediated Intestinal Absorption Components of Two Angiotensin Converting Enzyme (ACE) Inhibitor Prodrugs in Rats: Enalapril and Fosinopril," <i>Pharm. Res.</i> , 6:1043-1047 (1989)
	AX	Ganapathy et al., "Proton-coupled solute transport in the animal cell plasma membrane," <i>Curr. Opin. Cell Biol.</i> , 3:695-701 (1991)
	AY	Gonzalez et al., "An Oligopeptide Transporter Is Expressed at High Levels in the Pancreatic Carcinoma Cell Lines AsPc-1 and Capan-2," <i>Cancer Res.</i> , 58:519-525 (1998)
	AZ	Higgins, "ABC Transporters: From Microorganisms to Man," <i>Annu. Rev. Cell Biol.</i> , 8:67-113 (1992)
	AAA	Knütter et al., "A Novel Inhibitor of the Mammalian Peptide Transporter PEPT1," <i>Biochemistry</i> , 40:4454-4458 (2001)
	ABB	Lee et al., "Biopharmaceutics of transmucosal peptide and protein drug administration: role of transport mechanisms with a focus on the involvement of PepT1," <i>J. Control. Release</i> , 62:129-140 (1999)
	ACC	Liang et al., "Human Intestinal H <sup>+</sup> /Peptide Cotransporter. Cloning, Functional Expression, and Chromosomal Localization," <i>J. Biol. Chem.</i> , 270:6456-6463 (1995)
	ADD	Liu et al., "Molecular cloning of PEPT2, a new member of the H <sup>+</sup> /peptide cotransporter family, from human kidney," <i>Biochim. Biophys. Acta</i> , 1235:461-466 (1995)
	AEE	Loisel et al., "Recovery of homogeneous and functional $\beta_2$ -adrenergic receptors from extracellular baculovirus particles," <i>Nat. Biotechnol.</i> , 15:1300-1304 (1997)
	AFF	Mangor et al., "A GP64-Null Baculovirus Pseudotyped with Vesicular Stomatitis Virus G Protein," <i>J. Virol.</i> , 75:2544-2556 (2001)
	AGG	Mikhailov et al., "Expression of functionally active ATP-sensitive K-channels in insect cells using baculovirus," <i>FEBS Lett.</i> , 429:390-394 (1998)
	AHH	Mrsny, "Oligopeptide Transporters as Putative Therapeutic Targets for Cancer Cells," <i>Pharm. Res.</i> , 15:816-818 (1998)
	AII	Muranushi et al., "Transport Characteristics of Ceftibuten, a New Oral Cephem, in Rat Intestinal Brush-Border Membrane Vesicles: Relationship to Oligopeptide and Amino $\beta$ -Lactam Transport," <i>Pharm. Res.</i> , 6:308-312 (1989)
	AJJ	Nakanishi et al., "Cancer Cell-Targeted Drug Delivery Utilizing Oligopeptide Transport Activity," <i>Int. J. Cancer</i> , 88:274-280 (2000)
	AKK	Nakashima et al., "Kinetics and Mechanism of <i>In Vitro</i> Uptake of Amino- $\beta$ -Lactam Antibiotics by Rat Small Intestine and Relation to the Intact-Peptide Transport System," <i>Biochem. Pharmacol.</i> , 33:3345-3352 (1984)
	ALL	Noe et al., "Characterization of the Mouse Bile Salt Export Pump Overexpressed in the Baculovirus System," <i>Hepatology</i> , 33:1223-1231 (2001)
	AMM	Ogihara et al., "Immuno-Localization of H <sup>+</sup> /Peptide Cotransporter in Rat Digestive Tract," <i>Biochem. Biophys. Res. Commun.</i> , 220:848-852 (1996)

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 14875-137US1	Application No. 10/516,603
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant Tatsuhiko Kodama et al.	
		Filing Date June 8, 2005	Group Art Unit 1632

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	ANN	Okano et al., "H <sup>+</sup> Coupled Uphill Transport of Aminoccephalosporins via the Dipeptide Transport System in Rabbit Intestinal Brush-border Membranes," <i>J. Biol. Chem.</i> , 261:14130-14134 (1986)
	AOO	Sai et al., "Immunolocalization and pharmacological relevance of oligopeptide transporter PepT1 in intestinal absorption of $\beta$ -lactam antibiotics," <i>FEBS Lett.</i> , 392:25-29 (1996)
	APP	Sai et al., "Selective Delivery of Peptide Anticancer Drugs via Oligopeptide Transporter Expressed in Cancer Cells," <i>Proceedings of the Millennium World Congress of Pharmaceutical Science</i> , p. 61, Abstract No. 2-2124 (April 16-20, 2000)
	AQQ	Saito et al., "Cloning and Chracterization of a Rat H <sup>+</sup> /Peptide Cotransporter Mediating Absorption of $\beta$ -Lactam Antibiotics in the Intestine and Kidney," <i>J. Pharmacol. Exp. Ther.</i> , 275:1631-1637 (1995)
	ARR	Saito et al., "Molecular cloning and tissue distribution of rat peptide transporter PEPT2," <i>Biochim. Biophys. Acta</i> , 1280:173-177 (1996)
	ASS	Sakaguchi et al., "The Ion Channel Activity of the Influenza Virus M <sub>2</sub> Protein Affects Transport through the Golgi Apparatus," <i>J. Cell Biol.</i> , 133:733-747 (1996)
	ATT	Satoi et al., "Genetic Immunization of Wild-Type and Hepatitis C Virus Transgenic Mice Reveals a Hierarchy of Cellular Immune Response and Tolerance Induction against Hepatitis C Virus Structural Proteins," <i>J. Virol.</i> , 75:12121-12127 (2001)
	AUU	Shen et al., "Localization of PEPT1 and PEPT2 proton-coupled oligopeptide transporter mRNA and protein in rat kidney," <i>Am. J. Physiol.</i> , 276:F658-F665 (1999)
	AVV	Steiner et al., "The PTR family: a new group of peptide transporters," <i>Mol. Microbiol.</i> , 16:825-834 (1995)
	AWW	Strehlow et al., "Retroviral membrane display of apoptotic effector molecules," <i>Proc. Natl. Acad. Sci. USA</i> , 97:4209-4214 (2000)
	AXX	Sugano et al., "Quantitative Structure-Intestinal Permeability Relationship of Benzamidine Analogue Thrombin Inhibitor," <i>Bioorg. Med. Chem. Lett.</i> , 10:1939-1942 (2000)
	AYY	Sun et al., "Drug Inhibition of Gly-Sar Uptake and hPepT1 Localization using hPepT1-GFP Fusion Protein," <i>AAPS Pharmsci.</i> , 3(1):article 2, pp. 1-9 (2001)
	AZZ	Szakács et al., "Characterization of the ATPase Cycle of Human ABCA1: Implications for Its Function as a Regulator Rather Than an Active Transporter," <i>Biochem. Biophys. Res. Commun.</i> , 288:1258-1264 (2001)
	AAAA	Takahashi et al., "Interaction of $\beta$ -Lactam Antibiotics with H <sup>+</sup> Peptide Cotransporters in Rat Renal Brush-Border Membranes," <i>J. Pharmacol. Exp. Ther.</i> , 286:1037-1042 (1998)
	ABBB	Terada et al., "Characterization of Stably Transfected Kidney Epithelial Cell Line Expressing Rat H <sup>+</sup> /Peptide Cotransporter PEPT1: Localization of PEPT1 and Transport of $\beta$ -Lactam Antibiotics," <i>J. Pharmacol. Exp. Ther.</i> , 281:1415-1421 (1997)
	ACCC	Terada et al., "Peptide Transporter Family," <i>Tanpakushitsu Kakusan Koso (Protein, Nucleic Acid and Enzyme)</i> , 46:621-628 (2001) (Concise explanation in English enclosed)
	ADDD	Zhou et al., "Characterization of an oligopeptide transporter in renal lysosomes," <i>Biochim. Biophys. Acta</i> , 1466:372-378 (2000)

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	